

NEWTON'S TELECOM DICTIONARY

The Official Dictionary of
Telecommunications & the Internet

TONY'S TELECOM DICTIONARY

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Appendix A

DX Digital Exchange. The early 1980s evolution of exchanges that branched the phone system into Version 2 variations of a CSMA/CD media access protocol. The DX "standard" was then submitted to the IEEE, where after some modifications, it was released as IEEE Standard 802.3. The IEEE version did not include specifications for fiber optic cables.

DX Converter A local area network converter DX converter provides parallel data in a standard serial connection. It converts multiple channels from the network, the multi-DX converter, plus into the Superimposed and the local DX converter abilities to an external transceiver.

DX Standard The IEEE, Xerox, Ethernet standard also known as Version 1 or Busnet. Ethernet has been updated twice between IEEE 802.3 and the IEEE 802.5.

2. Distance Learning

DL 1. Digital Line Cards. Network transmission equipment that provide parallel data on a local loop. The digital line card system derives multiple channels, typically 64 kbps voice-grade, from a single four-wire distribution cable supplied from the central office to a remote site. In the traditional environment, Digital Line Cards (DLC) campuses transmitting equipment in the central office (CO). A four-wire twisted-pair circuit is deployed from the CO to the remote location at the point of telephone termination (PT), where the provider is metering the customers. From the remote node, the customer is forced to purchase voice-grade local loops which extend to the individual customer premise. Typically, multiple DLs are daisy-chained — devices which multiplex and demultiplex multiple channels over a high-bandwidth electrical distribution facility. Such DLs are used in situations in which the cost of the equipment is more than offset by the savings in distribution facilities through eliminating the need for a large number of individual copper pairs. Traditional DLs also are known as PLCs (Subscriber Loop Carrier Systems).

In a more contemporary scenario, the carriers deploy high bandwidth fiber optic facilities from the CO to the PL. The carrier terminates at each end and accomplish the appropriate crossover process, as well as that of individual equipment placement. The final leg of the local loop remains unextended and twisted pair. This type of system can be characterized as a hybrid local loop system. Given the high cost of sign conversion process, PLCs offer clear advantages in comparison to FTTx (Fiber To The Home). Additionally, the deployment of the optical fiber between facilities yields much greater aggregate bandwidth — typically a minimum of 51.84 million bits per second, which is the optical equivalent of 40 million bits per second (in the electrical world). See also SLC, Channel Bank, and Multiplexer.

2. Site Data Link Control

DLG Data Link Controller Identifier. A frame relay term defining a 10-bit field of the address field. The DLCI defines the logical link between two adjacent switches.

DLE Dual Line Exchanges. Site line and Common line Management protocol (CLM). See line audits.

DLT Data Link Layer. A layer of OSI and Windows protocols that handles the control aspects of data exchange.

DLT Dynamic Link Library A feature of OS/2 and Windows that allows executable code modules to be loaded on demand and linked at runtime. This has usually been referred to as dynamic linking.

DM Designated Manager. The person who is responsible for the management of a group of nodes.

DM Design Document A document that describes the design of a system.

DM Design Document Interface A standard interface developed by the IEC for use between IEDs and IEDs.

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DSQ Digital Switched Signaling. The name of the New York, NY 10162-0001 telephone number assigned to the telephone number 212-708-7000.

DSU Digital Signal Unit.

DSU Digital Signaling Unit.